"APPROVED FOR RELEASE: 06/20/2000 CI

CIA-RDP86-00513R001444710001-9

RESHETNIKOV, A. G.

Reshetnikov, A. G.

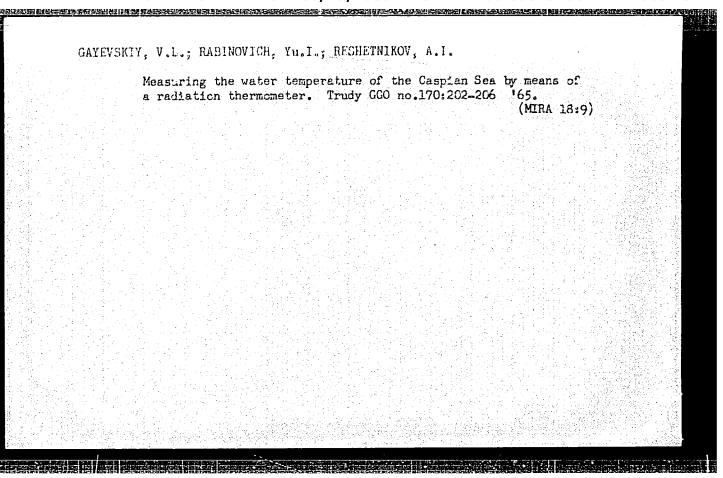
Reshetnikov, A. G.

Soornik materialov po kommunal. knoz-vu, No. 5, 1946, p. 53-61

SO: U-2888, Letopis Zhurnal'nykh Statey, No. 1, 1949

アル L 9794-66 ACC NR: UR/0286/65/000/020/0140/0141 SOURCE CODE: AP5028540 AUTHORS: Brovin, I. Ye.; Reshetnikov Grennaus Sidel'skiy, D. A. ORG: none TITLE: Device for filling jars with a product. Class 81, No. 175868 SOURCE: Byulleten' isobreteniy i tovarnykh snakov, no. 20, 1965, 140-141 TOPIC TAGS: food product machinery, food technology, food samitation ABSTRACT: This Author Certificate presents a device for filling jars, containing a loading bin, a product-metering device with pistons, and a mechanism for supplying empty jars and removing filled jars. To use it for packaging of sauerkraut, the metering device consists of a cylindrical body which rotates around a vertical axis and which has slots with metering cylinders located uniformly around its perimeter. These metering cylinders consist of two half-cylinders, one of which is pressed into the slot while the other is connected to the carriage with the help of a springloaded lever with a roller at its free end. This roller interacts with a regulating template to move the half-cylinder into the slots. A curved cut-off knife is also provided. To separate the sauerkraut from the brine and to feed it to the metering cylinders, a second feature of the device provides a scraping conveyor located under the bin with a comb-like unloader, an inclined belt conveyor with an underpan for UDC: 664.843.974.2.036.532 Card1/2

9794-66 ACC NR: ADECOURTS		
AP5028540		
collecting the brine, and paddle-type loaders. The	bin is equipped with	a vibrator.
To meter brine into the jars, a third feature providing loader. To provide constant product deliver	des a well-known rote w by the paddle loads	ry type
loaded diaphragm is located in the loader exit pipe	. This disphragm is	connected
to a rod which acts through a rheostat on the drivi	ing mechanism changing	the con-
그 아니는 그들은 하다 된 것 같아 있다면 모든 모든 사람이 없다.		
SUB CODE: 13, 06/ SUBM DATE: 05Jul61/		
에 보고하고 있다. 전환경 100개를 하고 하는 것은 것은 시간에 가장 생각한 일본 요즘 문화를 하지만 생각하고 있는 것이 있는 것은 것은 것을 하는 것이 없다.		
		l
$\mathcal{Q}_{\mathcal{C}_{\mathcal{I}}}$		



Veteran of the country's main line. Put! i put.khoz. 6 no.5:10 (NIRA 15:4)
1. Nachal'nik otdela kadrov Leningrad-Moskovskoy distantsii Oktyabr'skoy dorogi,
(Railroads-Employees)
[교회: : : : : : : : : : : : : : : : : :
나는 아이들은 사람들은 얼마들만 보이 많은 것 같다. 그 아이는 나는 이 그는 나밖에요?
한 보는 호텔은 회원 이번 등로 가는 것이 되는 것이 되는 것이 되었다. 이 한 생활이 없
그 이렇다 그리고 있다. 얼마나 하지 않는 그리고 있다. 그리고 있다는 사람들은 말
이번 등 불인 것 같은 경우 없는 한 사람이 지난 그들은 사람은 사람이 없는 것 같아 보는 것 같아.
현실 보고 있다. 그리고 한 경험 전쟁 현실 하고 있는 그런 보고 있는 경험 보고 있는 그 것이 되었습니다. 그는 그는 그는 그는 것이 되었습니다. 그는 그는 그는 그는 그를 받는 것은 것이 되었습니다. 1일 경험 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전
사람들은 이번 내가 되었다면 하는 사람들이 되는 것이 되었다면 하는 것이 되었다면 하는데 되었다.
그리아 마음 다시 아름을 하는 것 같아. 그는 사람들은 사람들이 다시 아니라 나를 다시 다시 나를 다녔다.
등은 마음이 있으면 가게 되었다. 나는 사람들은 사람들은 사람들은 사람들은 사람들은 사람들이 되었다.
사고 보다는 사람들에게 이번을 내려가 되고 하는 것이다. 그 것은 사람들은 이번 개를
방마 시간 그리고 있는 그리면 함께 되는 사람들은 사람들이 되었다. 그리고 있는 사람들은 사람들은 사람들은 사람들은 사람들이 되었다.
한 그는 한 경기 보다 함께 한 점점을 되었다. 그리고 하는 사람들은 사람들이 되었다. 그리고 나를 받는 것이다.
一个事情,我们一样一个有一个事,我们就是一个是好有的意思,是这个事情,我们一个事情,我们一个事情,我们也是不是有一个事情,我们也有一个事情,我就能够 是 这一个事情

ENT(1)/FSS-2 TT/JT GW 1. 38219-66 (N)

ACC NR: AP6019458

SOURCE CODE: UR/0384/66/000/001/0027/0032

AUTHOR: Kondrat'yev, K. Ya. (Professor); Gayevskiy, V. L. (Candidate of physico-mathematical sciences); Konashenok, V. N.; Reshetnikov, A. I.

B

CRG: none

TITLE: Lunar meteorological observatory

SOURCE: Zemlya i vselennaya, no. 1, 1966, 27-32

TOPIC TAGS: lunar base, lunar communication, meteorologic satellite, laser applica-

tion

ABSTRACT: The establishment of an observatory on the moon for the purpose of carrying out meteorological, astrophysical, and geophysical studies of the earth is discussed. While the advantages of a moon-based observatory are stressed, the authors em phasize that it will not obviate the need for earth satellites for meteorological studies. The lunar observatory will be especially important in investigating circulation in the earth's atmosphere. The use of laser beams in lunar-based studies of the earth is mentioned. One of the principal difficulties is the need to record small energy flows in a brief time span. This problem may be partially solved through the use of large mirrors which will serve as boosters. Orig. art. has: 2 photographs.

SUB CODE: 22.04.08

SUBM DATE: none

Cord 1/1 111-

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001444710001-9

EWT(1)/FCC/FSS-2 37695-66 UR/0293/66/004/003/0427/0438 SOURCE CODE: ACC NRI AP6019596 AUTHORS: Kondrat'yev, K. Ya.; Gayevskiy, V. L.; Konashenok, V. N.; Reshetnikov, ORG: none TITLE: Lunar meteorological observatory for earth observations Kosmicheskiye issledovaniya, v. 4, no. 3, 1966, 427-438 SOURCE: atmospheric observation, have suffice of morphic metacologic actuality. About come, metacologic actuality. About come, metacologic actuality. Abstract: The advantages of observing the earth's atmosphere from a lunar base are analyzed. Among such advantages listed are: the absence of a lunar atmosphere; a continuous observation of the earth, inasmuch as the same lunar surface faces the earth at all times; and solar energy utilization. The two disadvantages associated with such an observatory are the excessive distance and periodic librations both in longitude and in latitude. The terrestrial area covered by one or more lunar observatories can be determined from sun-earth-moon position studies. The possibility of camera coverage and visual observation of the cloud cover in the earth's atmosphere is evaluated by reviewing existing TV and photographic methods used on weather satellites such as Nimbus. For a 2-km resolution a 12' visual angle is needed from a lunar-based TV camera. The study of spatial resolution over a 200 x 200-km area by thermal radiation sensors requires an angular resolution of 2'. Two other methods of some 551.501:523.3 **Cord** 1/2

AP60	019596							٥
erit for observestrial obar actividadvantages are eviewed, and bsolete but	surface or ity on change ad disadvant it is sho	its albedoes in the tages of the that a	upper at weather so lunar ob	mportant p mosphere atellites servatory	problem is inve and lun does no	of determi stigated. ar observa t make wea	The resp atories ar ather sate	ective ective e llites
TUB CODE: 2	2. 04.43/SUB	M DATE:	27May65/	ORIG REF	: 003/	ATD PRES	5:5041	/
						or and a line of the second of		
							4. 赛点多数。	
ard 2/2					· 10、 多数,包含			

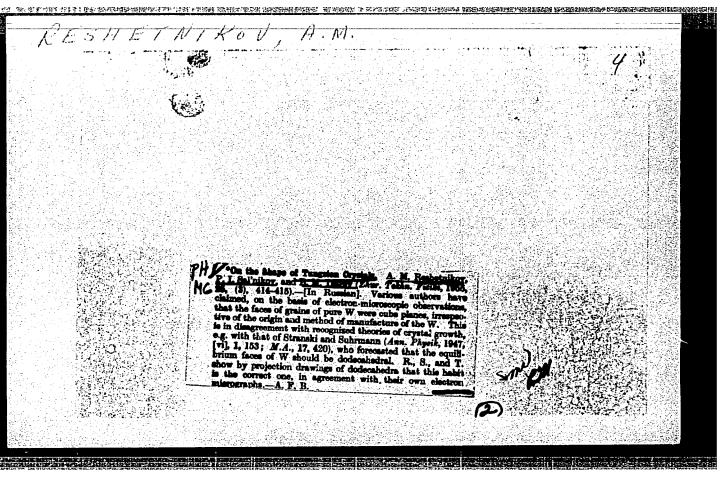
APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001444710001-9"

ERAVINSKIY, V.G.; RESHETNIKOV, A.M.

Tracing the development of microcracks in ceramics. Izv. AN SSSR.
Ser. fiz. 27 no.9:1219-1223 S '63. (MIRA 16:9)
(Ceramic materials—Testing) (Electron microscopy)

KROKHINA, A.I.; SPIVAK, G.V.; RESHETNIKOV, A.M.; ZHELNINSKAYA, R.I.

Electron-microscopic study of the structure of ceramic materials revealed by ionic etching. Izv. AN SSSR. Ser. fiz. 27 no.9: (MIRA 16:9) (224-1227 S '63. (MIRA 16:9) (Electron microscopy) (Ceramic materials—Testing)



的,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个

A.M. DECHETNIKOV and V D GLEBOVA

"Investigation of the Feasibility of Using an Electron Microscope for Microcrystalloscopic Analysis of Electrovacuum Materials" from Annotations of Works Completed in 1955 at the State Union Sci. Res. Iust: Min. of Radio Engineering Ind.

So: B-3,080,964

Restation Franchis

137-1957-12-24351

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 12, p 201 (USSR)

AUTHOR: Reshetnikov, A.M.

TITLE: On the Diffusion Method of Brazing Titanium with Copper (O

diffuzionnym metode payki titana s med'yu)

PERIODICAL: Tr. n.-i. in-ta. M-vo radiotekhn. prom-sti SSSR, 1957,

Nr 2(38), p 105

ABSTRACT:

Diffusion brazing of titanium with copper is employed in the making of a Ti-anticathode surface for dismountable X-ray tubes. A highly ground or polished Ti lamina (0.2-0.3 mm thick) is pressed tightly against the even surface of a copper disk by means of a steel clamp. The entire combination is placed in a vacuum furnace and heated to 880-890°. The resulting eutectic alloy (72 percent Cu; 28 percent Ti) along the Ti-Cu contact surface accomplishes a suitable metallic connection. The brazing requires approximately 15-20 minutes. The temperature of the furnace must not exceed 900°, lest the eutectic alloy form throughout the entire specimen. Tests of the tube yielded favorable

results.

Card 1/1

G. N.

1. Titanium-Brazing
Applications

2. Copper-Applications

3. Brazing-

20-119-1-20/52

AUTHOR:

Reshetnikov, A. M.

TITLE:

On the Structure of Thin Films of Sb₂S₃, Which Were Obtained by Sublimation in a Nitrogen Atmosphere at Pressures Below 4 mm Hg (O strukture tonkikh plenok Sb₂S₃, poluchennykh vozgonkoy v atmosfere azota pri davleniyakh nizhe 4 mm rt.st.)

PERIODICAL:

Doklady Akademii Nauk SSSR, 1958, Vol. 119, Nr 1, pp. 75-78 (USSR)

ABSTRACT:

In the sublimation of antimony trisulfide in high vacuum on (10⁻⁵mm Hz) a lacquer base smooth amorphous films form. The structure of such films was investigated thoroughly by L. I. Tatarinova. An analogous structure is also exhibited by films of Sb₂S₃, which were condensed on a fresh fraction surface of a rock salt crystal and of other crystalline supports. A perfectly different structure is shown by the films of Sb₂S₃, obtained in a rare gas or nitrogen atmosphere on a lacquer base and also on other bases at pressures below 4 torr. The sublimation of Sb₂S₃ took place out of a quartz boat at ~550°C. The films were produced at nitrogen pressures of 4; 2; 1; 0,5; 0,2; 8.10⁻²; 3.10⁻²; 1.10⁻²; 5.10⁻³; 1.10⁻³

Card 1/3

20-119-1-20/52

On the Structure of Thin Films of Sb₂S₃, Which Were Obtained by Sublimation in a Nitrogen Atmosphere at Pressures Below 4 mm Hg

到14.2万以自己的产品工具的发生的毛球的企业的产品,在14.60元的特殊的一种企业的企业的企业,在15.60元的企业的企业的企业的企业的企业的企业的企业的企业的企业的企业的企业的企业的企业。

loose structure with small flakes. These flakes consist of chains of crystals of about 300 X of antimony trisulfide. films obtained at pressures of 1 mm Hg resemble much the just described films, but they are less "flaky". Some of them are unstable and change under the influence of an electron beam. At nitrogen pressures of 0,5 torr and below in general smooth layers without a notice blo structure are obtained, which could be observed by an electron mic ascope with an 5000-8000-fold magnification. When irradiates by an electron beam cracks form in such a layer. The mechanism of the formation of the layers of antimony trisulfide, which were condensed in a nitrogen atmosphere of 4 and 2mm Mg. pressure differs principally from the mechanism of the condensate formation in vacuum. In case of high evaporation velocities the Sb,S, molecules collide and combine to groups or even to smail crystals. Further the motion of such molecule groups and of the little crystals will obey Brown's law. Each small crystal is supmeed to contain about 200000 molecules. The films, condensed in a nitrogen atmsophere, form of approaching molecule groups and of single molecules, which have lost a considerable part of their energy by collisions with each other and with

Card 2/3

20-119-1-20/52

On the Structure of Thin Films of Sb₂S₃, Which Were Obtained by Sublimation in a Nitrogen Atmosphere at Pressures Below 4 mm Hg

the nitrogen molecules. Under the influence of an electron beam the films become more compact. There are 4 figures and 5 references, 5 of which are Soviet.

PRESENTED:

October 24, 1957, by N. V. Belov, Member, Academy of Sciences,

USSR

SUBMITTED: Octobe

October 22, 1957

Card 3/3

24.7100

77124 sov/70-4-6-25/31

AUTHOR:

Reshetnikov, A. M.

TITLE:

Concerning the Structure of Amorphous Antimony

Sulfide Films. Brief Communications

PERIODICAL:

Kristallografiya, 1959, Vol 4, Nr 6, pp 926-928

(USSR)

ABSTRACT:

The known data on the structure of antimony sulfide films, produced by sublimating $\mathrm{Sb}_2\mathrm{S}_3$ under vacuum upon celluloid substrate, can not be extended to antimony sulfide films produced under other conditions. The author studied the short-range order in amorphous films produced by sublimating $\mathrm{Sb}_2\mathrm{S}_3$

from a quartz boat upon celluloid substrate at

440°C in a N atmosphere under a pressure of 0.1-0.2 mm mercury. The radial distribution curve on Fig. 2 was obtained on the basis of the electron diffraction intensities and the computations according

Card 1/4

Concerning the Structure of Amorphous Antimony Sulfide Films. Brief Communications

to:
$$4\pi r^2 \sum_{m} K_m U_m(r) = 4\pi r^2 U_0 \sum_{m} K_m + \frac{2r}{\pi} \int_0^{\infty} s \cdot i(s) \sin s r ds,$$
 (1)

where $U_{\rm m}(r)$ is a function of atomic density; $U_{\rm o}$ is average number of atoms in a spherical layer from r to r + Δr ; s = $(4\pi\sin\theta)/\lambda$;

$$i(s) = \sum_{m} K_{m}^{2} \left(\frac{I_{n}}{\sum_{m} I_{m}^{2}} - 1 \right).$$
 (2)

$$K_{\perp}^{2} = \frac{\sum_{i} f_{i}^{2}(s) \cdot s^{2}}{\sum_{i} f_{i}^{2}(s) \cdot s^{2}}$$
(3)

 f_1 and f_l are atomic factors of Sb and S, respectively. The two maxima on the radial distribution curve

Card 2/4

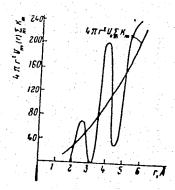
Concerning the Structure of Amorphous Antimony Sulfide Films. Brief Communications

77124 SOV/70-4-6-25/31

correspond to interatomic distances 2.6 A and 4.0 A. The computed number of the nearest unlike atoms around Sb atoms is 5.9, and around S atoms, 3.95, which in round figures give 6 and 4, respectively. In crystalline Sb2S3 each Sb is enveloped by 7 S atoms of which 6 are at distances varying from 2.49 to 3.16 A, and the 7th is at 3.64 A. It is likely that the same atomic arrangement is preserved in the amorphous modification. This is possible if it is assumed that the fardistanced 7th S atom, instead of being within the same maximum as the other 6, appears within the adjacent maximum of the radial distribution. N. V. Belov and L. I. Tatarinova are acknowledged for suggestions. There are 2 figures; and 5 references, 4 Soviet, 1 U.S. The U.S. reference is: R. L. Harris, R. E. Wood, H. L. Ritter, J. Amer. Chem. Soc., 73, 3151-3155, 1955.

Card 3/4

Concerning the Structure of Amorphous Antimony Sulfide Films. Brief Communications



77124 SOV/70-4-6-25/31

Fig. 2. Radial distribution curve of amorphous ${\rm Sb_2S_3}$.

SUBMITTED:

August 21, 1959

Card 4/4

CIA-RDP86-00513R001444710001-9 "APPROVED FOR RELEASE: 06/20/2000

sov/48-23-6-4/28

AUTHOR:

Reshetnikov, A. M.

TITLE:

Electron-microscopic Investigation of the Structure of Fine Films of Antimony-sulfite, Obtained by Vaporization in a Vacuum and in a Nitrogen Atmosphere at a Pressure of Less Than 4 torr (Elektronnomikroskopicheskoye issledovaniye struktury tonkikh plenok sernistoy sur'my, poluchennykh ispareniyem v vakuume i v atmosfere azota pri davleniyakh nizhe 4 mm rt. st.)

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959, Vol 3,

PERIODICAL:

Nr 6, pp 680 - 686 (USSR)

ABSTRACT:

In recent years, antimony sulfite has been used to a considerable extent as photoconductive material in television target tubes. In the introduction, a number of papers dealing with the structure and the physical properties of thin films of this compound is mentioned; they showed that these layers have amorphous or crystalline structure. L. P. Tatarinova showed in one of his papers (Ref 2) that layers of this kind, vaporized on celluloid, have amorphous structure. In another paper (Ref 3) the influence exercised by the temperature of the base layer upon structure is investigated. In the second part of this paper the apparatus for the production of thin films of Sb₂S₃ is described. It

Card 1/3

Electron-microscopic Investigation of the Structure 50V/48-23-6-4/28 of Fine Films of Antimony-sulfite, Obtained by Vaporization in a Vacuum and in a Nitrogen Atmosphere at a Pressure of Less Than 4 torr

consists essentially of a two-stage pumping gear, a container in which vaporization is carried out, and a device for the supply of nitrogen. Vaporization is carried out at 500-550°C. The investigations were carried out after separation from the base layer. They showed that the condensation of the compound under investigation in vacuum furnishes amorphous structures on NaCl-monocrystals and on polycrystalline Sn-dioxides. If the vapor is condensed in a nitrogen atmosphere within the range of from 4 mm to 1.10-3 torr, certain definite structures are obtained. The author carried out investigations at ten different pressures within the aforementioned range; five figures are shown of these films (Figs 2,3,4 and 5), and the results obtained are discussed in detail. The structure varies between a crumbly structure at higher pressure and a zig-zag structure at pressures below 0.5 torr. This zig-zag structure is formed by cracks caused by the electron beam in the layer. In the last part of this paper the formation of thin films is dealt with. It is pointed out that the formation process in a vacuum differs essentially from that in a nitrogen atmosphere. They differ

Card 2/3

Electron-microscopic Investigation of the Structure SOV/48-23-6-4/28 of Fine Films of Antimony-sulfite, Obtained by Vaporization in a Vacuum and in a Nitrogen Atmosphere at a Pressure of Less Than 4 torr

with respect to velocity and the rectilinear or nonrectilinear motion of the molecules. The following is then dealt with in detail: Velocity of vaporization, the number of possible (probable) collisions of molecules, the time needed for the molecules to move from vaporization to condensation, the density of the vaporized molecules in the space between vaporization and condensation, and, lastly, pressure. There are 5 figures and 11 references, 10 of which are Soviet.

Card 3/3

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001444710001-9"

5\$

S/032/60/026/04/40/046 B010/B006

AUTHORS:

1) Ivanov, K.A., 2) Konstantinov, V.A., 3) Ostapchenko, Ye.P.,

Reshetnikov, A.M., 4) Avayev, V.V., 5) Mokhov, L.A., Dzedzichek, V.P.,
6) Lutugina, N.V.

TITLE:

News in Brief

PERIODICAL: Zavodskaya laboratoriya, 1960, Vol. 26, No. 4, pp. 504-506

TEXT: 1) The author reports on the development of X-ray apparatus for measuring stresses of first order in welded designs. The apparatus (Fig., photograph) comprises a switchboard, high voltage transformer, X-ray tube (in a casing), a stand for the latter, a chamber, and mechanisms for vibrating and rotating the specimen. P.M. Lebedev and P.V. Shepelev collaborated in designing the chamber and the stand. A brief description of the apparatus is given. 2) The author recommends the use of an attachment (Fig.) for taking photographs of coarsecrystalline specimens by the 1-KROS camera. The specimen which is fixed by a holder, is shifted by means of a cam which has the shape of opposite Archimedean spirals. Cam rotation shifts the specimen by sin²α, where α = angle

Card 1/2

News in Brief

S/032/60/026/04/40/046 B010/B006

of specimen displacement vertical to the incident X-ray. 3) The authors describe a dismountable vacuum tube (Fig.) for X-ray structural analysis. The tube casing has three openings for the X-rays and one for evacuation. The copper anode has a titanium mirror, the construction of which is described. 4) The author briefly describes a simple device (Fig., photograph) for lowering the chamber of the ISP-22 quartz spectrograph. 35) The authors describe a simple apparatus for sampling gas under reduced pressure. The apparatus (Fig., diagram) consists of two absorbers, a rheometer, and a vacuum pump. A short explanation of the diagram is given. 6) The author discusses the application of somewhat modified Taylor condensers for investigating rectification processes of ternary systems in the distillates of which demixing occurs. The mode of operation of the condensers is described by means of a diagram (Fig.). There are 6 figures and 1 reference.

ASSOCIATION: 6) Leningradskiy gosudarstvennyy universitet (Leningrad State University)

Card 2/2

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001444710001-9

L 19958-63 EPF(n)-2/EWP(q)/EWT(m)/BDS/EWP(B)/T-2/ES(w)-2--AFFTC/ASD/ SSD--Pu-4/Pab-4--JD/WH ACCESSION NR: AP3007827 S/0048/63/027/009/1219/1223

AUTHOR: Bravinskiy, V.G.; R Reshetnikov, A.M.

74

TITLE: Investigation of the process of development of microcracks in ceramics /Report, Fourth All-Union Conference on Electron Microscopy held in Sumy* 12-14 March 19637

SOURCE: AN SSSR, Ser.fizicheskaya, v.27, no.9, 1963, 1219-1223

TOPIC TAGS: strength of material, ceramics, corundum, microcrack

ABSTRACT: The formation and development of microcracks on the surface of ceramic specimens under increasing short-term and stead (long-term) mechanical stresses was studied. The materials investigated by means of the electron microscope described by A.M. Reshetnikov, V.G. Bravinskiy and V.P. Ivanov (Vorposy* radioelektroniki, Seriya I, Elektronika, No.2, 32, 1963) were "aluminosilicate" and "alumino-oxide" high-alumina ceramics. The former consists of thin laminae of glass (25%) cemented together by trystals of corundum (67%) and celsian (Ba feldspar) (3%); the latter consists of 35% 10-15 micron corundum crystals with the voids filled with glass. In the short-term stress experiments the specimens were subjected to 50% the short-term breaking-point load for 300 min. A 0.3 mm² area on the polished

 $Card^{1/3}$

15.5年17.5年18.6年18.15年17.15 四年48.45年18.6年18.15年18.15

L 19958-63 ACCESSION NR: AP3007827

surface was examined at appropriate intervals at a magnification of 2500 X. The quantities determined were the number of cracks and their length. In view of the fact that most of the microcracks occur in the corundum crystals, the data were reduced to the ratios B/A and m/n, where A is the total number of crystals per 0.1 mm² area (equal to 3600 for the aluminosilicate ceramic, and 1200 for the alumino-oxide ceramic), B is the number of crystals per 0.1 mm² area showing cracks, n is the number of cracks evident in only one crystal, and m is the number of cracks extending through two or more crystals. Curves for B/A and m/n versus percent rupture stress (short-term tests) and B/A and m/n versus stressing time (long-term tests) are presented. The experimental data show that the process of breakdown of ceramic materials under stress begins with the appearance of cracks in individual corundum crystals (not between crystals or at the glass-crystal boundaries). With increasing stress or loading time these initial cracks grow and extend across the specimen, leading to eventual rupture. Orig.art.has: 5 figures.

Card 2/3

RESHETNIKOV, Aleksandr Vasil'yevich; GEMBOREK, G.L., red.; MAKAROVA, N.F., tekhn. red.

[Problems and exercises in chemistry for secondary schools; a manual for teachers] Sbornik zadach i uprazhnenii po khimii dlia srednei shkoly; posobie dlia uchitelei. Izd.2., ispr. i dop. Moskva, Uchpedgiz, 1962. 92 p. (MIRA 15:12) (Chemistry—Problems, exercises, etc.)

RESHETNIKOV, Aleksandr Vasil'yevich; POZDNYAKOVA, N.I., red.; MAKHOVA, N.N., tekhn.red.

[A collection of questions and problems in chemistry for secondary schools] Sbornik voprosov i zadach po khimii dlia srednei shkoly. Moskva, Gos.uchebno-pedagog.izd-vo M-va prosv., 1957. 142 p.

(Chemistry--Problems, exercises, etc.)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001444710001-9"

S=0 '57. (Rural schools) (Chemical laboratories)	
1967年1月1日 - 1967年 - 19	
근소에도 아니고요요 그런 그는 이 그런 돈은 이 없는데 회원 가는 하는 것이 모든 말을 하나 가	
어느 사람이 아무지 않는 것이 되었다. 사람들에 가장 모든 사람들이 되는 사람들이 되었다.	
음식으로 되는 것이 많아 되었다. 이 그리는 그러운 모든 이 그리를 모르는 사람이 되었다.	

1. Zaveduvushchiy uchebnoy chast'yu sredney shkoly s. Perekonnoye Yershovskogo rayona Saratovskoy oblasti. (ChemistryStudy and teaching)	Materials for technical training in chemistry in the rural school. Politekh.obuch. nc.7:64-66 Jl '57. (MIRA 10:7)
	1. Zaveduvushchiy uchebnoy chast'yu sredney shkoly s. Perekonnoye Yershovskogo rayona Saratovskoy oblasti.

RESHETNIKOV, A.Ye.

fiffect of Co⁶⁰ gamma irradiation of seeds on the forms of water in leaf tissues of corn and wheat. Uzb. biol. zhur. 9 no.4:10-11 '65.

(MIRA 18:10)

1. Institut yadernoy fiziki AN UzSSR.

KLEYTMAN, Samuil Lazarevich; LAGUNOV, Lazar' Yakovlevich; RESHETNIKOV, B.V., dotsent, otv.red.; PROKOPENKO, M.I., red.; TSYMBALO, B.D., tekhn.red.

[Maintenance and repair of motor vehicles in automotive transportation units] Tekhnicheskoe obsluzhivanie i remont avtomobilei v avtokhoziaistvakh. Izd.2., perer. i dop. Khar'kov, Izd-vo Khar'kovskogo gos.univ.im. A.M.Gor'kogo. 1959. 514 p. (MIRA 13:3) (Motor vehicles--Maintenance and repair)

KLEYTMAN, Samuil Lazarevich; LAGUNOV, Lazar' Yakovlevich; RESHETNIKOV, B.V., dotsent. otvetstvennyy redaktor; PROKOPENKO, M.I., redaktor; CHERNYSHENKO, Ya.T., tekhnicheskiy redaktor

[Maintenance and repair of automobiles in automobile depots]
Tekhnicheskoe obsluzhivanie i remont avtomobilei v avtokhoziaistvakh.
Khar'kov, Izd-vo Khar'kovskogo ordena trudovogo krasnogo znameni gos.
univ. im. A.M.Gor'kogo, 1956. 303 p.
(Automobiles—Repairing)

					4 2	- 10	1037	antar .		C-1 1		
100					230	110	エフラフラ	antesy,	ryuchiye	Stantsev,	Szhiganiye	Pylevidnoye
							· · · · · · · · · · · · · · · · · · ·					
					1 -							
	1.1.	;										
					-							
	. 5								71	934-35, TII	Slantsy # 19	Coryuchiye
									4	G		
					٠.							
		11		٠.				•				
								1				
			÷.									

KLYUVER, N.F., inzh.; RESHETNIKOV, D.V., inzh.

Automatic frequency control with efficient distribution of loads.
Elek. sta. 32 no.1:44-49 Ja '61. (MIRA 16:7)

(White Russia—Electric power distribution)

(Frequency regulation)

YERMAKOV, V.S., kand. tekrn. nauk, glav. red., LEONKOV, A.M., red., MINKOV, V.A., red., PEKELLS, G.B., kand. tekhn. nauk; RESHEYNIKOV, D.V., red.

[Coverage of fluctuating electrical loads in electric power systems] Problemy pokrytila peremennyka elektronagruzok v energosistemakr. Minsk, Nauka i tekhnika: 1965. 144 p. (MIRA 18:10)

1. Nauchno-tekbnicheskaya konferentsiya po problemam pokrytiya pikovykh nagrozik obtyedinennoy energosistemy Severo-Zapada. Minsk, 196.

BEREGOVSKIY, Vladimir Iosifovich; GUDIMA, Nikolay Vasil'yevich; VANYUKOV, V.A., professor doktor, zasluzhennyy deyatel' nauki i tekhniki, retsenzent; VANYUKOV, A.V., dotsent, kandidat tekhnicheskikh nauk, retsenzent; IL'ICHEV, G.V., inzhener, retsenzent; ZADIKYAH, A.A., inzhener, retsenzent; RESHTNIKOV, F.G., redaktor; ARICHANGEL'SKAYA, M.S., redaktor izdatel'stva; ATTOPOVICH, M.K., tekhnicheskiy redaktor

[Nickel metallurgy; a textbook for schools and courses for specialists]
Metallurgiia nikelia; uchebnoe posobie dlia shkol i kursov masterov.
Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi
metallurgii, 1956. 355 p.

(Nickel--Metallurgy)

AUTHOR:

RESHETNIKOV, F.G., OBLOMEYEV, E.N.

PA - 3025

TITLE:

On the Mechanism of the Production of the Zirconium Fungus in the Magnesia-Thermal Production Process of Zirconium. (O mekhanizme obrazovaniya tsirkoniyevoy gubki pri magniyetermicheskom protsesse

polucheniya tsirkoniya, Russian)

PERIODICAL:

Atomnaia Energiia, 1957, Vol 2, Nr 5, pp 459-462 (U.S.S.R.)

Received: 6 / 1957

Reviewed: 7 / 1957

ABSTRACT:

First, two previous works are discussed in short. The present investigation permits the following assumptions to be drawn concerning the order and the mechanism of the production of the various parts of the zirconium fungus: In the initial stage of the reduction process chlorine zirconium (zirconium chloride) reacts with magnesia on the surface of a molten magnesia vat. Reaction takes place mainly on the walls of the vat. The zirconium produced at this moment absorbs the admixtures of oxygen and nitrogen (zirconium is a good getter) from the gaseous medium. The zirconium sinks to the bottom of the vat where it forms the ground fungus; a small part of the zirconium remains on the walls of the vat where it forms the lateral fungus. The reaction of the magnesia vapors with the zirconium chloride in the initial stage of the process can be inhibited if the heating of the reaction vat with the magnesia remains comparable with the entering

Card 1/2

PA ~ 3025

On the Mechanism of the Production of the Zirconium Fungus in the Magnesia-Thermal Production Process of Zirconium.

of zirconium chloride (The last phrase is not clear, possibly because a word is missing in the original text. The reviewer). In the opposite case a black powder is formed (Zr + MgCl2). In the fclowing stage the upper part of the fungus is produced. The growth of this part towards the top takes place more rapidly than the lifting of the level of the molten vat of metallic magnesia and magnesia chloride. Various circumstances indicate the following: The magnesia, by which the zirconium is well moistened, raises to the top as a result of the capillary effect of the zirconium fungus and develops on its highly developed surface with the vapors of the zirconium chloride, so that the zirconium fungus gradually and continuously grows towards the top. - The authors confirm this mechanism by using magnesia with a 3% aluminum content (or with a lower content of tin). The ideas disoussed permit a better selection of the optimum temperature of the vat and the symporator as well as an increase of the yield of highquality zirconium fungus. (2 Illustrations and 1 Table).

ASSOCIATION:

Not given

PRESENTED BY:

14.11.1956

SUBMITTED: AVAILABLE:

Library of Congress

Card 2/2

AUTHORS:

Reshetnikov, F.G., Oblomeyev, Ye.N.

89-4-4-3/28

TITLE:

The Investigation of the Velocity of the Magnesium-Thermic Process in Zirconium Production (Izucheniye skorosti magniyetermicheskogo protsessa polucheniya tsirkoniya)

PERIODICAL:

Atomnava Energiya, 1958, Vol. 4, Nr 4, pp. 349-353 (USSR)

ABSTRACT:

The apparatus is described by means of which velocity of the magnesium-reduction process was investigated. The level of the melt MgCl_2 + KCl is measured by means of a j-gauging device (Co^{60}). The vapor pressure of zirconium chloride in the reduction apparatus was measured by means of an ordinary manometer. The manometer is connected with the interior of the reduction vessel by means of an opening- and closing device with liquid tin. Measurements showed that during evaporation (heating up to $450\,\mathrm{^{o}C}$),

the temperature of zirconium chloride does not exceed 330°C

during the magnesium-reduction process.

The average velocity of the entire reduction process of zirconium chloride increases with a temperature increase in the crucible from 700 to 850°C, i.e. more slowly than with a temperature in-

Card 1/2

HISTORICE PROTECTION OF THE PR

The Investigation of the Velocity of the Magnesium-Thermic Process in Zirconium Production

89-4-4-3/28

crease from 460 to 490°C.

The decisive factors in zirconium production therefore are the evaporation temperature and the vapor pressure of zirconium chloride. There are 5 figures, and 2 references.

SUBMITTED:

May 29, 1957

- 1 Zirconium--Production 2. Zirconium--Temperature factors
- 3. Zirconium chloride--Reduction 4. Zirconium chloride--Vapor pressure
- 5. Magnesium--Thermal effects

Card 2/2

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001444710001-9"

37988 \$/089/62/013/001/003/012 B102/B104

114200

AUTHORS:

Reshetnikov, F. G., Gurvich, M. G.

TITLE:

Mechanism whereby oxygen-containing uranium compounds exert a negative influence on the process and results of reducing uranium tetrafluoride by metallothermal means

PERIODICAL:

Atomnaya energiya, v. 13, no. 1, 1962, 54-58

TEXT: An attempt is made to discover why oxygen-containing uranium compounds ${\rm UO}_2$ and ${\rm UO}_2{\rm F}_2$, if included in the mixture, exert a negative effect on uranium reduction by the use of magnesium or calcium. According to the initial composition and the method of UF₄ production, the final product contains more or less of ${\rm UO}_2$ or uranyl fluoride, the latter being formed according to the equation UF₄ + H₂O + $\frac{1}{2}$ O₂ = ${\rm UO}_2{\rm F}_2$ + 2HF. The presence of these oxides considerably reduces the uranium yield and favors the formation of heavy slags. This effect is shown to be related to the formation of "secondary" UO₂ during the reduction process. For the reduction with CaO

Card 1/2

S/089/62/013/001/003/012
Mechanism whereby oxygen-containing...
B102/B104

the course of reduction is assumed to be given by

 $UF_4 + CaO = UOF_2 + CaF_2$ (2)

 $UOF_2 + CaO = UO_2 + CaF_2$ (3)

 $UF_4 + 2CaO = UO_2 + 2CeF_3$ (4)

(the same holds for MgO). The oxyfluoride UOF₂ which is formed has hitherto been unknown and the existence of this new phase was proved by X-ray study of the reaction product from (2). There are 5 figures.

SUBMITTED: November 23, 1961.

Card 2/2

USSR/Cultivated Plants. Technical Plants. Oil and M Sugar Learing Plants.

Abs Jour : Ref Zhur-Biol, No 15, 1958, 68265

Author : Reshetnikov, F. I., Kryshina, G. I.

Inst:
The Effectivenss of Liquid Armonia Fertilizers
Title: The Effectivenss of Liquid Armonia Fertilizers
during the Vegetation Period in Cotton.

Orig Pub: Sots. s. kh. Uzbekistana, 1957, No 6, 17-18

Abstract: On the basis of a field experiment conducted at the sovkhoz imeni Fifth Anniversary in the UzSSR, it was determined that liquid ammonia is completely absorbed by the soil at the place of application. This fact makes it possible to apply it in the early period of the plant's development at a distance of 15-22 centimeters from the row. Liquid ammonia had no ne-

Card : 1/2

USSR/Cultivated Flants. Technical Flants. Oil and Manuar Dearing Flants.

Abs Jour : Ref Zhurn-Biol., No 15, 1958, 68265

gative effects on the cotton-ball formation or on the yield of raw cotton.

Card : 2/2

114

- 1. LEVITOV, A. I.; RESHETNIKOV, F. K.: SLEPTSCV, V. A.
- 2. USSR (600)
- 4. Russian Literature History and Criticism
- 7. The people's way of life and folk works in the democratic literature of the 1860's (A. I. Levitov, F. M. Reshetnikov, V. A. Sleptsov). I. M. Kolesnitskaya. Uch. zap. Len. un. no. 158, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl

	Footwear indus	try of Kazakhstan.		2 no.10:4-7 (MIRA 13:11)	
		(KazakhstanShoe	industry)		
w.					
			•		
			Line and the second of the second of		(보기 보세 변하 <u>네)</u>

DOROSHENKO, P.G., inzh.; RESHETNIKOV, G.I.

Technical and economic analysis of methods of electric protection from corrosion. Stroi.truboprov. 7 no.9:28-30 S 162.

(MIRA 15:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po stroitel'stvu magistral'nykh truboprovodov (for Doroshenko). 2. Gosudarstvennyy proyektno-izyskatel'skiy institut po proyektirovaniyu elektrifikatsii dorog i energeticheskikh ustanovok (for Reshetnikov). (Electroltyic corrosion)

RESHETNIKOV, G.I.

A universal portable cathodic protection apparatus using transistors.

Avton., telem.i sviaz: 6 no.5:30-33 My 162. (MIRA 15:4)

RESHETNIKOV, G.I.

Mobile electric-measurement laboratory on the UAZ-450 motor vehicle for the investigation of stray currents. Gaz. delo no.7: 28-31 64. (MIRA 17:8)

1. Gosudarstvennyy ordena Trudovogo Krasnogo Znameni provektnoizyskatel skiy institut elektrifikatsii zheleznykh dorog i energeticheskikh ustanovok Gosudarstvennogo proizvodstvennogo komiteta po transportnomu stroitel stvu SSSR.

GURL'ESBUR, Yu.S.; BLAGINEAVOV, B.F.; KHAKOVSKIY, Ye.B.; RESHETNIKOV, G.K.

Interrelation of melting parameters in high capacity cupolas.
Lit. proizv. no.1:15-17 Ja '65.

(MIRA 18:3)

SUKHARCHUK, Yu.S.; BLAGONRAVOV, B.P.; RESHETNIKOV, G.K.

Interaction of technological parameters of melting in cupolas of various design. Lit. proizv. no.2:8-10 F '63. (MIRA 16:3) (Cupola furnaces--Design and construction) (Melting)

	"Agross the fore I.Reshetnikov.	ests and groves" IUn.net. no.1:32 (Mature of Ryzhiko)	by A.M.Ryzhikov. 3 Ja '63. study) v, A.M.)	Reviewed by (MIRA 16:1)	

RASHEVSKIY, K.P., veterinarnyy vrach (Pereslavskiy rayon, Yaroslavskoy oblasti; RESHETNIKOV, I.M., veterinarnyy vrach (Pereslavskiy rayon, Yaroslavskoy oblasti)

Feeding of urea to milch cows. Veteriariia 38 no.10:66 0 61. (MIRA 16:2) (Pereslavl'-Zalesskyi District--Urea ad feed)

BILENKO, Zinoviy, pisatel'; DIRENKO, Georgiy [Dybenko, Heorhii], kand.tekhn.nauk, master sporta SSSR.; RESHETNIKOV, Igor' [Rechetnykov, Ihor]

Saluting the Pioneer tie! Znan. ta pratsiia no.5:12-13 My '62. (MIRA 15:6)

1. Srednyaya shkola No.119 g. Odessy (for Reshetnikov). (Pioneers (Communist youth))

RESHETNIKCV, I.A., uchitel'

Flat projection of the human trunk on paper. Biol. v shkole no.4:85-88 Jl-Ag '61. (MIRA 14:7)

1. Karamzinskaya vos'miletnyaya shkola Ul'yanovskogo rayona Ul'yanovskoy oblasti. (Medicine--Audio-visual aids)

BUROV, Petr Ivenovich; KAPUSTIN, Ivan Il'ich; VIADZIYEVSKIY, A.P., doktor tekhn.nauk, retsenzent; LEVIN, A.A., inzh., retsenzent; RESHETNIKOV, I.I., inzh., red.; TIKHAHOV, A.Ya., tekhn.red.

[Calculating productive capacity of machine tools] Raschet proizvoditel'nosti rabochikh mashin. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1958. 213 p.

(Machine tools)

(Machine tools)

RESHETNIKOV, I. M. and RASHEVSKIY, K. P. (Veterinary Surgeons, Fereiaslavsk Raion, Iaroslavl' Oblast')

"Feeding of milch cows with urea"

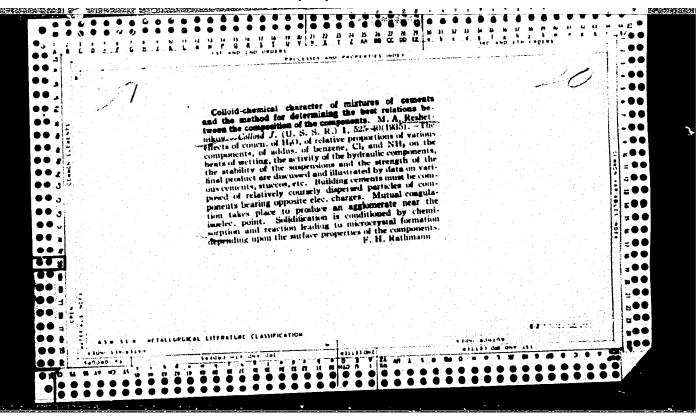
Veterinariya, Vol. 38, no. 10, October 1961, pp. 64

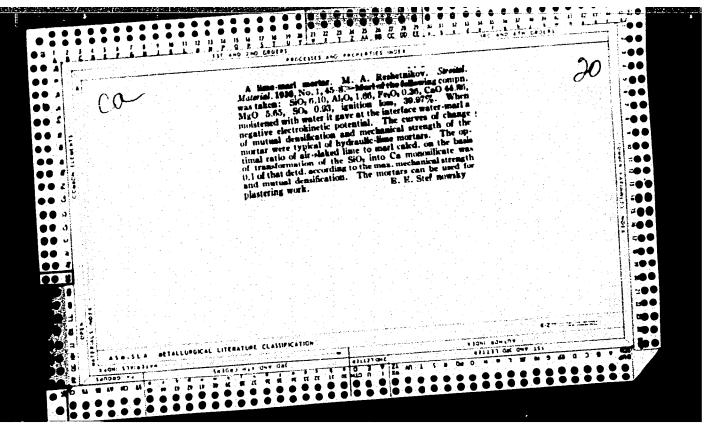
OGURTSOV, Anatoliy Il'ich, kand. tekhn. nauk; KANDALOV, I.I., prof., doktor tekhn. nauk, retsenzent [deceased]; RESHETNIKOV, K.A. dobs., retsenzent; SHERSHUKOVA, M.A., SHEKSINGJA, N.V., tekhn. red.

[Hydraulic fill methods for building earth dams] Namyv zem-lianykh sooruzhenii. Izd.2., ispr. i dop. Moskva, Gosstrolizdat, 1963. 366 p.

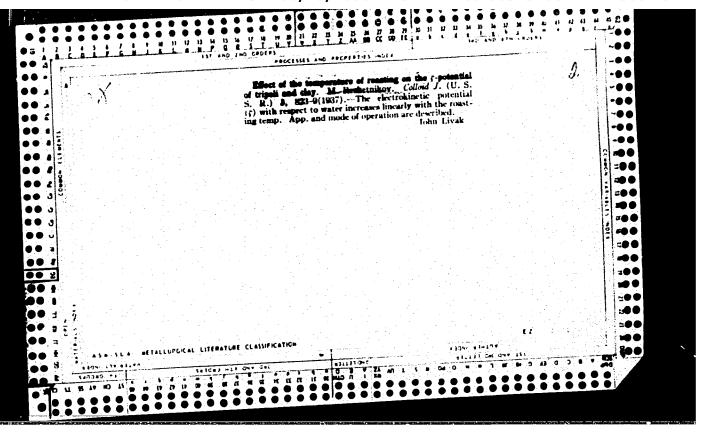
(Dams)

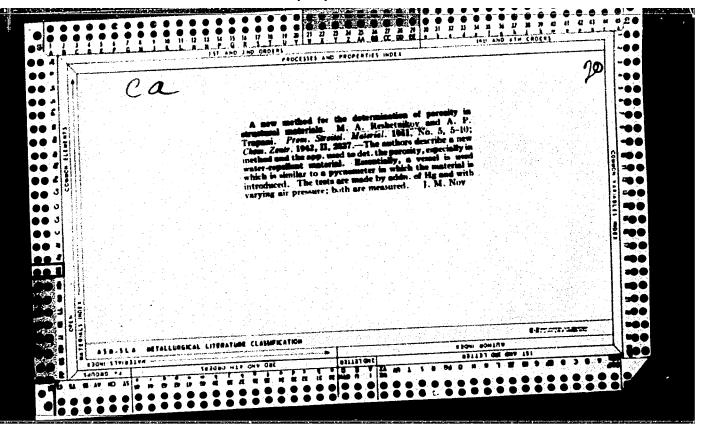
(Dredging)

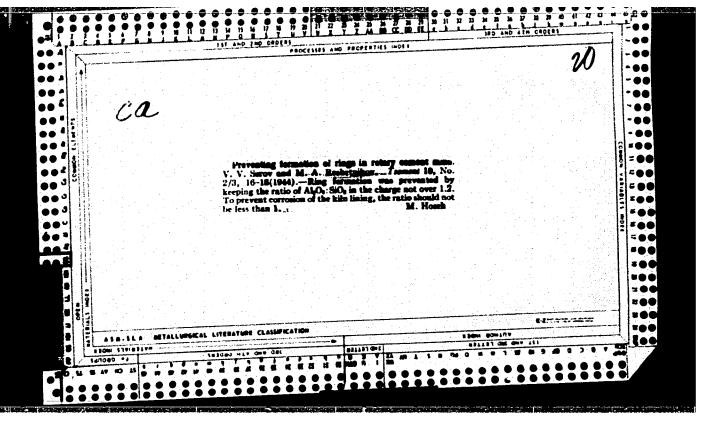




"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001444710001-9



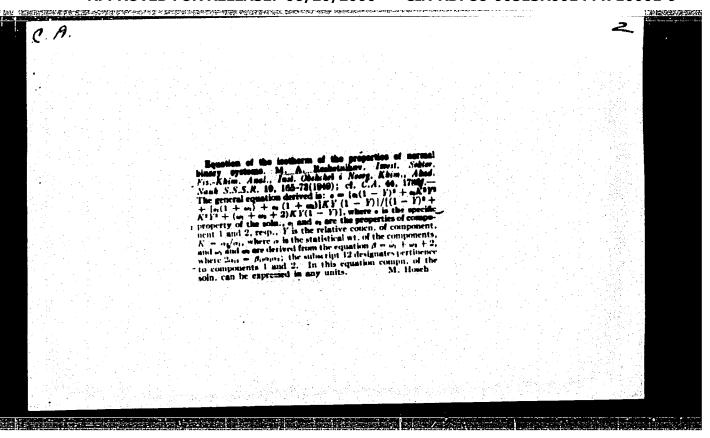


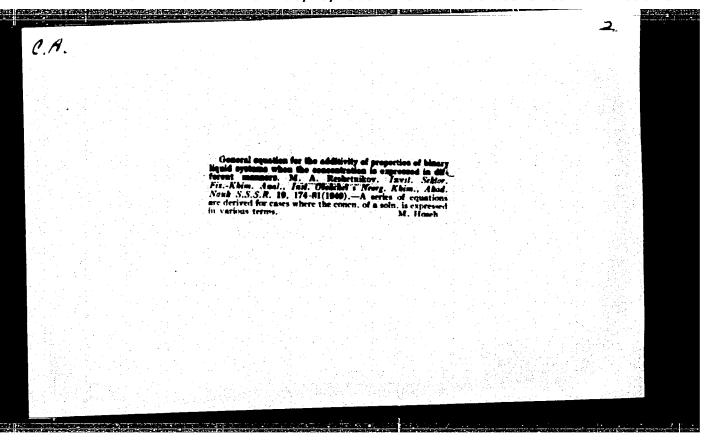


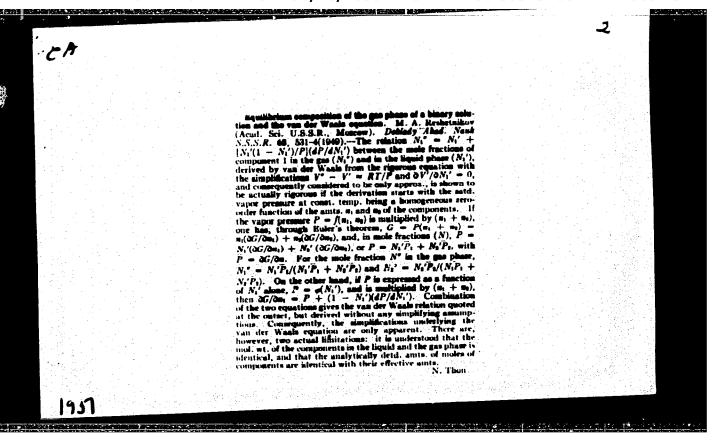
Mbr., Inst. General & Inorganic Chemistry im. N. S. Kurnakov; Dept. Chem. Sci., Acad.

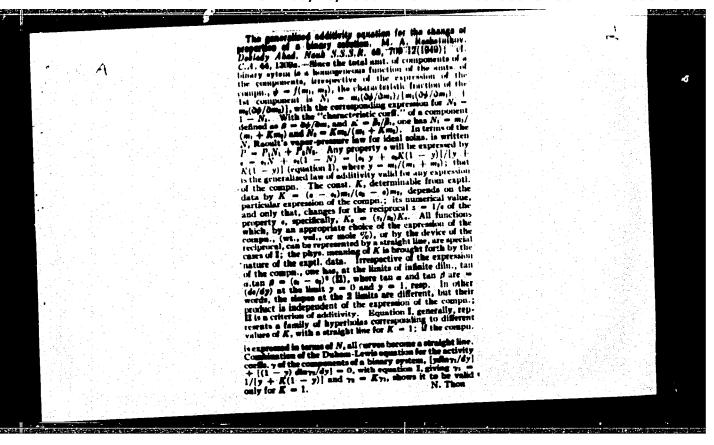
Mbr., Inst. General & Inorganic Chemistry im. N. S. Kurnakov; Dept. Chem. Sci., Acad.

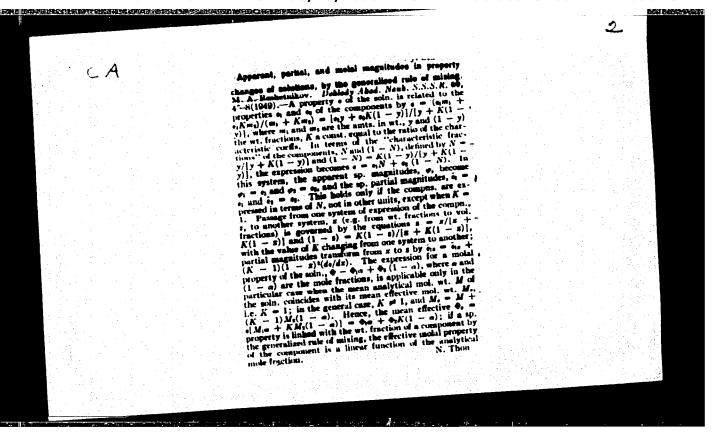
Sci., -c1949-. "The Apparent Partial and Molar Quantities during Variation of the
Sci., Sci., -c1949-. "The Apparent Partial and Molar Quantities during Variation AN, 69, No. 1,
Property of a Solution According to the General Rule of Mixtures," Bok. AN, 69, No. 1,
Property of a Solution According to the General Rule of Mixtures," Bok. AN, 68, No. 1,
Property of a Solution According to the General Rule of Mixtures," Bok. AN, 69, No. 1,
Property of a Solution According to the General Rule of Mixtures," Bok. AN, 69, No. 1,
Property of a Solution According to the General Rule of Mixtures," Bok. AN, 69, No. 1,
Property of a Solution According to the General Rule of Mixtures," Bok. AN, 69, No. 1,
Property of a Solution According to the General Rule of Mixtures," Bok. AN, 69, No. 1,
Property of a Solution According to the General Rule of Mixtures," Bok. AN, 69, No. 1,
Property of a Solution According to the General Rule of Mixtures," Bok. AN, 69, No. 1,
Property of a Solution According to the General Rule of Mixtures," Bok. AN, 69, No. 1,
Property of a Solution According to the General Rule of Mixtures," Bok. AN, 69, No. 1,
Property of a Solution According to the General Rule of Mixtures," Bok. AN, 69, No. 1,
Property of a Solution According to the General Rule of Mixtures," Bok. AN, 69, No. 1,
Property of a Solution According to the General Rule of Mixtures," Bok. AN, 69, No. 1,
Property of a Solution According to the General Rule of Mixtures," Bok. AN, 69, No. 1,
Property of a Solution According to the General Rule of Mixtures," Bok. AN, 69, No. 1,
Property of a Solution According to the General Rule of Mixtures, Bok. AN, 69, No. 1,
Property of a Solution According to the General Rule of Mixtures, Bok. AN, 69, No. 1,
Property of a Solution According to the General Rule of Mixtures, Bok. AN, 69, No. 1,
Property of a Solution According to the Gene











Effective partial model pressure and equilibrium companion of the first partial model pressure and equilibrium companion of the gas phase of a binary solution. M. A. Embedding of the gas phase of a binary solution. M. A. Embedding (Act. N. F. 3, 72. (1995)); cf. preceding about -1 in Note Care. F. 3, 72. (1995); cf. preceding about -1 in Note Care. F. 3, 72. (1995); cf. preceding about -1 in Note Care. F. 3, 72. (1995); cf. preceding about -1 in Note Care. F. 3, 72. (1995); cf. preceding about -1 in Note Care. F. 3, 72. (1995); cf. preceding about -1 in Note Care. F. 3, 72. (1995); cf. preceding about -1 in Note Care. F. 3, 72. (1995); cf. preceding about -1 in Note Care. F. 3, 72. (1995); cf. preceding about -1 in Note Care. F. 3, 72. (1995); cf. preceding about -1 in Note Care. F. 3, 72. (1995); cf. preceding about -1 in Note Care. F. 3, 72. (1995); cf. preceding about -1 in Note Care. F. 3, 72. (1995); cf. preceding about -1 in Note Care. F. 3, 72. (1995); cf. preceding about -1 in Note Care. F. 3, 72. (1995); cf. preceding about -1 in Note Care. F. 3, 72. (1995); cf. preceding about -1 in Note Care. F. 4, 72. (1995); cf. preceding about -1 in Note Care. F. 4, 72. (1995); cf. preceding about -1 in Note Care. F. 4, 72. (1995); cf. preceding about -1 in Note Care. F. 4, 72. (1995); cf. preceding about -1 in Note Care. F. 4, 72. (1995); cf. preceding about -1 in Note Care. F. 4, 72. (1995); cf. preceding about -1 in Note Care. F. 4, 72. (1995); cf. preceding about -1 in Note Care. F. 4, 72. (1995); cf. preceding about -1 in Note Care. F. 4, 72. (1995); cf. preceding about -1 in Note Care. F. 4, 72. (1995); cf. preceding about -1 in Note Care. F. 4, 72. (1995); cf. preceding about -1 in Note Care. F. 4, 72. (1995); cf. preceding about -1 in Note Care. F. 4, 72. (1995); cf. preceding about -1 in Note Care. F. 4, 72. (1995); cf. preceding about -1 in Note Care. F. 4, 72. (1995); cf. preceding about -1 in Note Care. F. 4, 72. (1995); cf. preceding about

RESHETNIKOV, M. A.

"Classification of Nonsingular Curves of N. A. Kurnakov and the Equation of the Isotherm of Properties of Binary Systems"

Izv. Sektora Fiz. Khim. Alaliza IONKh AN SSSR, 23, 1953, pp 9-12

Previously (ibid., 19, 165 (1949)) the author obtained, proceeding from the probabilities of combinations of molecules of components of a binary single-phased system of the type AA, BB and AB = BA, the isotherm equation with three characteristics constants. These constants and the family of non-singular curves responding to various values of these constants are analyzed. The properties of diluted solutions should be predicatable from the isotherm equation. (RZhFiz, No 11, 1954)

so: W-31187, 8 Mar 55

RESHETNIKOV, Mikhail Aleksandrovich (Inst of General and Inorganic Chem im Kurnakov, Acad Sci USSR) for Doc Chem Sci on the basis of dissertation defended 22 Oct 58 in Council of Mos Order of Lenin Chem Technological Inst im Mendeleyev, entitled "Equation of the isotherm of properties of double irrational systems."

(BMVISSO USSR, 1-61, 26)

∞223-

Certain questions concerning the Van der Waals and Lewis isothermal equilibrium between solution and vapor. Zhur.fiz.khim. 34 no.1:212-215 Ja '60. (MIRA 13:5)

1. Akademiya nauk SSSR. Institut obshchey i neorganicheskoy khimii imeni N.S.Kurnakova.

(Phase rule and equilibrium) (Solution(Chemistry))

76-32-4-37/43 Reshetnikov, M. A AUTHOR: On the Article by Yu. S. Varshavskiy, A. Ye. Kipnis and A. B. TITLE: Sheynin "On the Composition of the Equilibrium Gas Phase Above a Binary Solution and on the Van der Waals Equation" (On the Paper by M. A. Reshetnikov) (O stat'ye Yu. S. Varshavskogo, A. Ya. Kipnisa i A.B. Sheynina "O sostave ravnovesnoy gazovoy fazy mad binarnym rastvorom i ob uravnenii Van-der-Vaal'sa (Po povodu stat'i M.A. Reshetnikova)" Zhurnal Fizicheskoy Khimii, 1958, Vol. 32, Nr 4, pp. 945-948 PERIODICAL: (USSR) According to a critical comment of the author the authors ABSTRACT: mentioned in the title maintain, among other, that his contribution was a proof of a futile dealing with thermodynamical problems in a non-thermodynamical way. The equation formed by Reshetnikov, which is similar to that by Van der Waal and is valid for all concentrations of binary systems, was changed by the authors mentioned in the title and was put into a new form. In the present paper a number of mathematical equations and explanations are to prove that the above mentioned new form of an equation for infinitely diluted and ideal solutions was developed on the basis of an incorrect consideration of Card 1/2

On the Article by Yu. S. Varshavskiy, A. Ye. Kipnis and A.B. Shey- 76-32-4-37/43 nin "On the Composition of the Equilibrium Gas Phase Above a Binary Solution and on the Van der Waals Equation (On the Paper by M. A. Reshetnikov)"

Van der Waal's equation. The authorsmentioned in the title are said not to have understood the thermodynamical sense and the application of the magnitude of "molar partial pressure" in Reshetnikov's work and that they therefore committed their wrong explanations; it is also maintained that their statement of the "methodological errors" of formalism was out of question. There are 3 references, all of which are Soviet.

ASSOCIATION:

Institut obshchey i neorganicheskoy khimii im. N.S.Kurnakova, AN SSSR, Moskva (Moscow Institute for General and Inorganic

Chemistry imeni N. S. Kurnakov, AS USSR)

SUBMITTED:

November 27, 1957

AVAILABLE:

Library of Congress

1. Solutions-Theory 2. Solutions-Thermodynamic properties

Card 2/2

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001444710001-9"

a. Si kangang ang kang kangang at mangang kangang kangang kangang kangang kangang kangang 🗸

F

USGR / Microbiology. Human and Animal Pathogons.

Bacteria of Intestinal Group.

Abs Jour: Ref Zhur-Biol., No 2, 1959, 5577.

Author: Roshetnikov, M. S.

no del completa e e de locato de mechanica de la completa de la completa de la completa de la completa de la c

Inst : Not given.

Title : Observations on Epidemiological Effectiveness

of Immunization Against Dysentery.

Orig Pub: Voyen. med. zh., 1958, No 3, 53-54.

Abstract: No abstract.

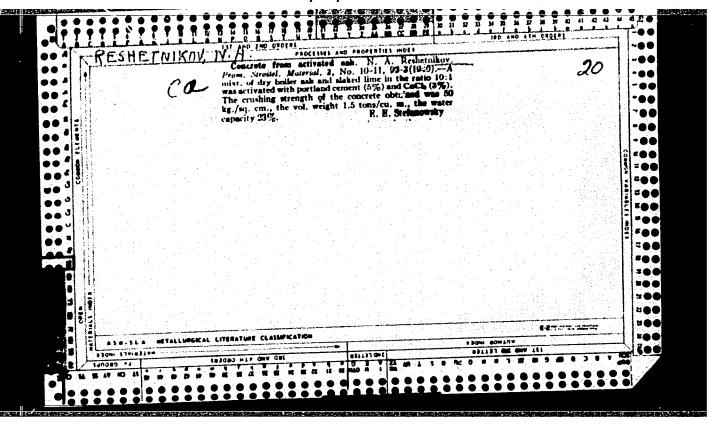
Card 1/1

43

Observations on the epidemiological effectiveness of immunization against dysentery, Voen. med. zhur. no.3:53-54 Mr '58. (MIHA 12:7) (DYSENTRIY, PACILIANY, immunol. yacc., effectiveness (Aus.))

RESHLTCHEOV, H., kaptin, propagandist politotdels

The layout of visual propaganda in military units. Komm.
Vooruzh. Sil l no.1:81-84 0 '60' (NTRA 14:7)
(Russia--Armed forces-Political activity)

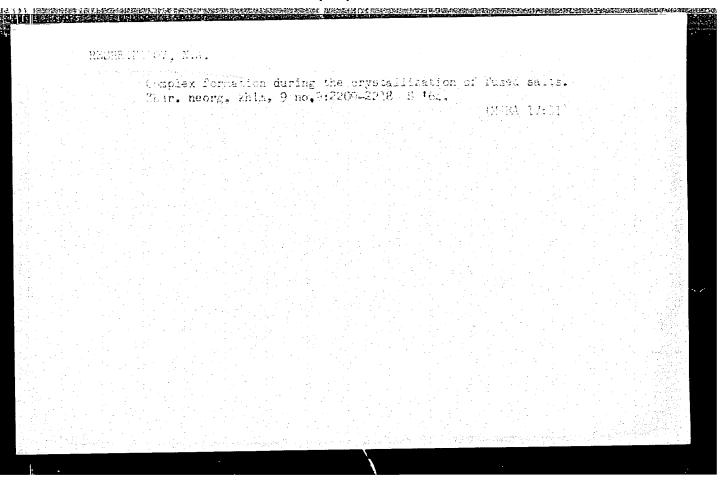


i, mafedra agrozatmii i biokbinii Sokavskoy erdema Leniga selil. skekte syaja svengay akodemii imani Timirya seva.	i. Maredra agreequati i biombait Monkovokoy erdema kaisa seli- skekin yaya yezhoù akademii isabi ilmirya zeva.			elde Ma	-01-40 3-41	Teref fil	C	នាក្រែស្ បាក់ក្រ	្នំ ១១ 	(ent)	1136	tr∎	day.	TOKH)	k no ()). 1:9 11:64	17:4	/,)		
			ĵ E	, Kri kost	i Sear Asyn,	a agi	roz (Li annoy	mli 'ako	l bl	ukbiqi Limit	1 4- 1 11	eko min	rskoy 16.2570	crae:	แก ใ	enin	ia 30) t		
																				¥3.
												· , -								

NIKIFOROVA, V.M., kand. tekhn. nauk; RMSHETKINA, N.A., insh.

Investigation of corrosion cracking of steam turbine disks, Energomashinostroenie 3 no.10:19-22 0 '57. (MIRA 10:12) (Steel--Metallography) (Steam turbine disks)

(Snipers)		*****	 Sniper	, gvardii training	. Voen	vest.	39	no.9:81-82	S	159. (MIR	12:12)	
		i di			(s	nipers)						
		· · · · ·										
	•											
원리 이번 열 마음이 얼마나 되는 것이 되는 사람이 되는 것 같아 먹었다.	:					1 4						



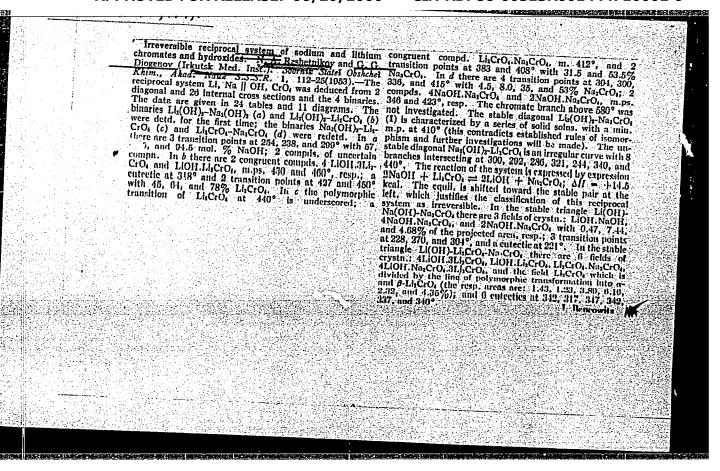
USSR/Chemistry - Lithium Compounds 1 Aug 52

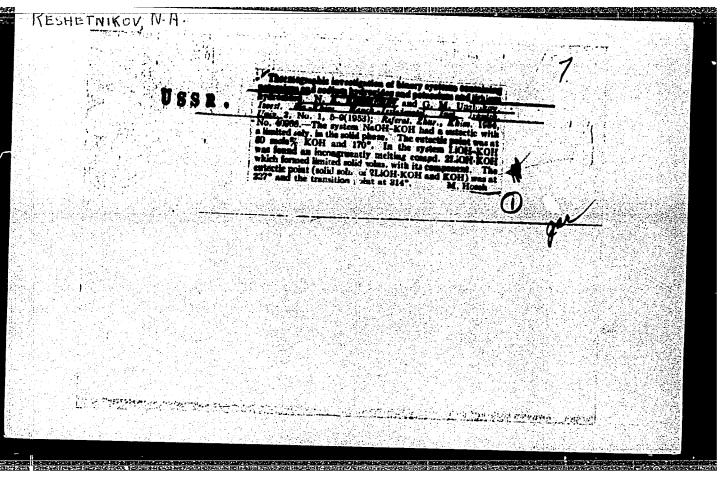
"Irreversible Mutual System of Potassium and Lithium Chromates and Hydroxides," N. A. Reshetnikov,
G. G. Diogenov

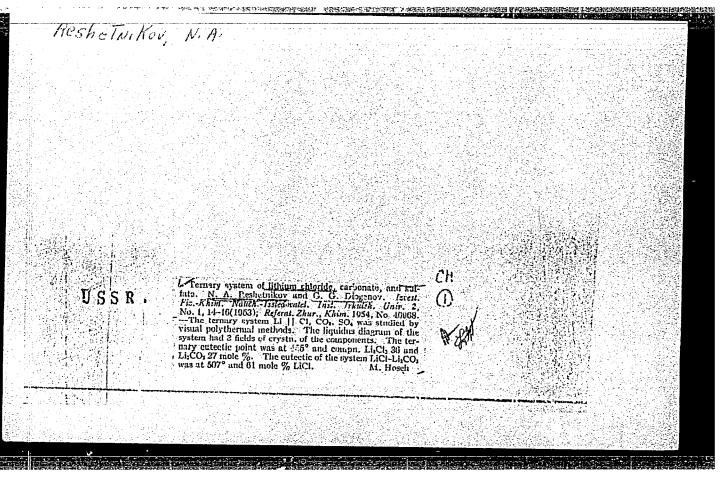
"Dok Ak Nauk SSSR" Vol 85, No 4, pp 819-822.

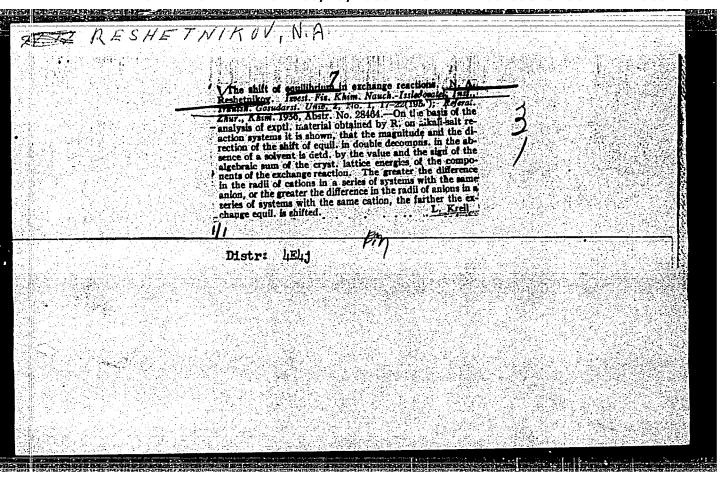
The solid soln of Li,KOH, CrO, was investigated and polytherms conclucted. The work refers to a series of investigations undertaken for the systematic investigation of alkali-salt exchange without a solvent. This research was completed at the Chair of Gen Chem, Irkutsk Med Inst. Presented

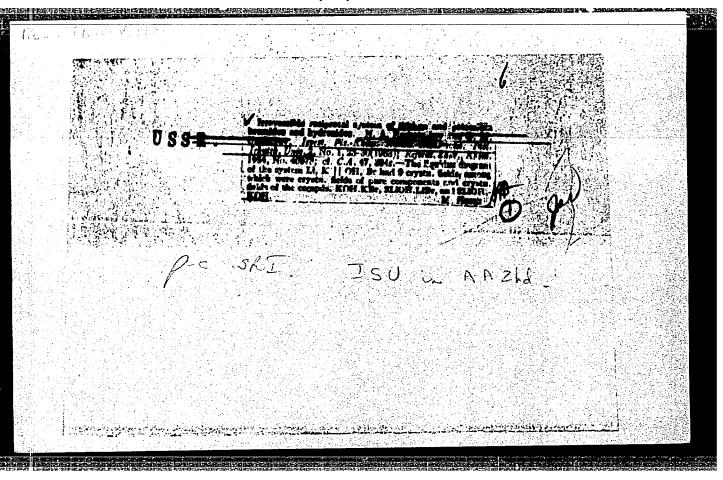
by Acad G.G. Urazov 2 Jun 52.

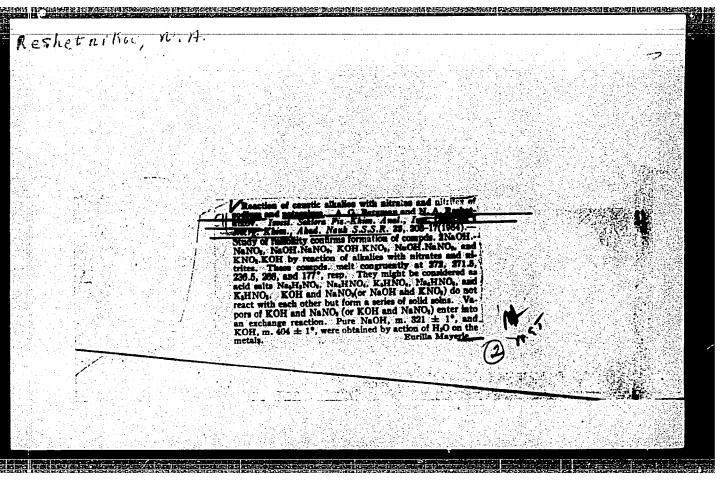












RUSHLER. KOU, N. A.

المعاري ويواري

AUTHORS:

Reshetnikov, N. A., Vilutis, N. I.

78-2-18/43

TITLE:

I. The Fusion Diagrams of Some Double Systems of Hydroxides and Salts of the Alkali Metals (I. Diagrammy playkosti nekotorykh dvoynykh sistem iz gidrookisey i soley shchelochnykh metallov)

PERIODICAL:

Zhurnal Neorganicheskoy Khimii, 1958, Vol. 3, Nr 2, pp. 366-377 (USSR)

ABSTRACT:

The authors treated the problem of the formation of complexes (no difference is made between complex-formation and double salts) between hydroxides and salts of the alkali metals in an anhydrous system. Ions which have a high polarizing effect and possess a small ionic radius show a tendency to complex-formation in double systems with general cations and various anions. The anions F', OH' and O2- show a tendency to complex-formation, as they have a higher polarizing effect. The cations with a higher polarizing effect also favorably influence the complex-formation. In this work the melts of the above-mentioned systems were investigated by simple and by differential analysis. The following thermographic investigations were performed: 1. The system KOH-KNO3. In this system the chemical

Card 1/2

I. The Fusion Diagrams of Some Double Systems of Hydroxides 78-2-18/43 and Salts of the Alkali Metals

compound KOH.KNO, which possesses a melting point of 236° C was determined from the fusion diagram. The formation of solid solutions is not out of the question either. 2. NaOH--NaNO2. In this system the chemical compound NaOH.NaNO2 with a melting point at 266° C was determined from the fusion diagram. The formation of solid solutions was not discovered in this system. The values for the temperature of the polymorphous transformation of sodium hydroxide /300° C/ and sodium nitrite /160° C/ correspond to the values given in publications. 3. The system K₂OH₂-K₂CrO₄. In this system the formation of compounds of the following composition is not impossible: KOH.K2CrO4, KOH.2K2CrO4, 2KOH.3K2CrO4. 4. The system NaOH-KNO3. The formation of solid solutions was determined from the fusion diagram of this system. This may probably be explained by the fact that large parts of the crystal-structure of one component are replaced by the second component. There are 6 figures, 6 tables, and 33 references, 16 of which are Slavic.

SUBMITTED: AVAILABLE: Card 2/2 February 20, 1957 Library of Congress

CIA-RDP86-00513R001444710001-9 "APPROVED FOR RELEASE: 06/20/2000

AUTHORS:

Reshetnikov, N. A., Unzhakov, G. M.

78-3-6-23/30

TITLE:

The Melting-Point Diagrams of the LiOH-LiCl and LiOH-NaOH

(Diagrammy playkosti sistem LiOH-LiCl, LiOH-NaOH)

PERIODICAL:

Zhurnal Neorganicheskoy Khimii, 1958, Vol. 3, Nr 6,

pp. 1433-1438 (USSR)

ABSTRACT:

Investigations of the Binary Systems LiOH-LiCl and

LiOH-NaOH were carried out.

Double compounds are formed in these systems.

The melting-point curves and the cooling curves of these systems were investigated by thermographic analysis. The following compounds were formed in the LiOH-LiClsystem at 300°C: 3 LiOH . 2 LiCl and an incongruent

meltable compound LiOH . LiCl.

Solid solutions with relatively high saturation

(approximately 25 mol % NaOH) are formed in the LiOH . NaOH-

system.

The incongruent meltable compounds NaOH . 3 LiOH and

LiOH . NaOH are formed in these systems also at 248°C.

Card 1/2

The Melting-Point Diagrams of the LiOH-LiCl and

78-3-6-23/30

LiOH-NaOH

There are 3 figures, 2 tables, and 10 references, 3 of which

are Soviet

SUBMITTED:

May 9, 1957

AVAILABLE: Library of Congress

1. Lithium chloride-lithium hydroxide systems--Phase studies

2. Lithium hydroxide-sodium hydroxide systems--Phase studies

Card 2/2

CIA-RDP86-00513R001444710001-9 "APPROVED FOR RELEASE: 06/20/2000

sov/78-4-:-24/48

5(4) AUTHORS: Reshetnikov, N. A., Vilutis, N. I.

TITLE:

The Ternary System of Hydroxides of Lithium, Sodium, and Potassium (Troynaya sistema iz gidrookisey litiya, natriya i

kaliya)

PERIODICAL:

ABSTRACT:

Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 1, pp 123-131 (USSR)

The binary systems NaOH-KOH, LiOH-KOH, and LiOH-NaOH were investigated and partly improved. The system LiOH-KOH was investigated for the first time and it was found that the addition of lithium ions to the binary system often causes complex formation. An incongruent melting compound 2LiOH.KOH was found in the system. The system LiOH-NaOH is the most complex of the three systems. Limited solid solutions appear on the side of LiOH and KOH. Two chemical compounds are formed: α -NaOH.3LiOH and NaOH.LiOH. The phase diagram of the system Li, Na, K | OH was plotted. Double compounds occur in the system. Polymorphous changes of the components take place and phase X appears which probably is a ternary compound. Nine ranges of crystallization can be seen on the diagram;

Card 1/2

The Ternary System of Hydroxides of Lithium, Sodium, and Potassium

1) α-NaOH, 2) β-NaOH, 3) α-KOH, 4) β-KOH, 5) LiOH, 6) 21:0H.KOH, 7) α-3LiOH.NaOH, 8) β-3LiOH.NaOH, 9) phase X. Addition f lithium hydroxide to melts of potassium and course nydroxide causes the melting temperature of the melts to drop very slightly.

There are 4 figures, 6 tables, and 8 references, 6 of which are Soviet.

SUBMITTED:

July 24, 1957

Card 2/2

VILUTIS, N.I.; RESHETNIKOV, N.A.

Reaction between sodium and lithium hydroxides and bromides in the absence of a solvent. Izv.Sib.otd.AN SSSR no.9:88-100 *60.

(MIRA 13:11)

1. Irkutskiy meditsinskiy institut.

(Sodium compounds)

(Lithium compounds)

